Incorporating Health Economics into Grant Proposals

Health Economics Short Course

For more information and course dates, please visit our website: http://go.unimelb.edu.au/i8ba
Or email us: health-economics@unimelb.edu.au

Centre for Health Policy
Melbourne School of Global and Population Health

Health Economics Unit
Centre for Health Policy
Melbourne School of Population and Global Health

http://mspgh.unimelb.edu.au/centres-institutes/centre-for-health-policy/research-group/health-economics

Prof Philip Clarke
Contact: Philip.clarke@unimelb.edu.au

Research interests:
Economics analyses alongside clinical trials; measuring health inequalities; simulation modeling; health systems research; valuing health outcomes terms

Current Grants:
• NHMRC Cardiovascular simulation models
• ARC centre of excellence in ageing (CEPAR II)
• NHMRC CRE on Hip and knee surgery
• Economic analysis HERO / CD-FIX Trials

Dr Kim Dalziel - Senior Research Fellow & McKenzie Fellow (kim.dalziel@unimelb.edu.au)

History: UniMelb, UniSA, Monash, UK-NICE
Training: BHealthSc Hons (Public Health, Psychology), MHealthEco, PhD

Expertise: Health economic evaluation and modelling, priority setting, Medicare and hospital data linkage, methodological research on use of evidence and efficiency of trials

Current Projects:
Economic evaluation of paediatric studies including Fontan (congenital heart surgery), and HIPSTER & HUNTER (neonatal breathing). CRE in cancer infection control. Economic evaluation alongside renal trials and general practitioner diabetes monitoring trial.

Topics: Paediatric economic evaluation alongside clinical trials, health technology assessment, clinical trial efficiency, use and scoring of PedsQL and CHU9D measures

Dr Natalie Carvalho – McKenzie Fellow
natalie.carvalho@unimelb.edu.au

• Training:
MPH (Epidemiology; Boston University); PhD (Health Policy/Decision Science; Harvard University)

• Research interests:
Reproductive, maternal, neonatal and child health; Global Health; Health inequalities; Childhood vaccines; Facility quality; Analysis of household surveys; Decision analytic modelling; Impact evaluation

• Some current projects:
- A review of equity and budgetary considerations within cost-effectiveness analyses of new childhood vaccines
- Estimating the impact of health insurance coverage on income related inequalities in drug expenditures
- Characterising the heterogeneity of the impact of India’s conditional cash transfer program: a multi-level analysis
Dr Li Huang – Research Fellow
li.huang@unimelb.edu.au

- **Training**
  - Master (Quantitative Economics, Jin University); PhD (Economics, Monash University).
- **Expertise**
  - Data management and analysis; economic evaluation; panel data analysis; data linkage.
- **Research interests**
  - Child health
- **Some current projects**
  - Costs and outcomes for preterm infants with respiratory distress (HIPSTER trial).
  - Costs and costs of non-cardiac complications for children born with single ventricle (Fontan patients).
  - The socio-economic distribution of Medicare benefits for Australian children (LSAC data).
  - The economic evaluation of a text message intervention aiming to reduce the frequency of binge drinking (TRAM trial).
  - Stimulants use for children with ADHD.
  - Methodological project on linking SF-36 with cost-benefit analysis.

Contact: linda.cobiac@unimelb.edu.au
Research interests:
- Population health modelling methods
  - Economic evaluation of preventive interventions – taxation, regulation, food labelling, health promotion, etc.
  - Global modelling of non-communicable diseases and risk factors – diet, physical activity, obesity, tobacco, alcohol.

Current projects:
- HRC (New Zealand): Modelling the impact of physical activity and dietary interventions on health, inequalities and health care costs.
- EC (Oxford): Modelling the health implications of moving to more sustainable diets.

Dr An Tran – Senior Research Fellow
an.tran@unimelb.edu.au

- **Research interests**
  - Health Economic Evaluation; Budget Impact Analysis; Simulation and Modelling; Big Data Analyses; Population-based Electronic Healthcare Database Studies
- **Some current projects**
  - Cost-effectiveness of stopping biological agents in patients with rheumatoid arthritis (Netherlands).
  - Long-term use of proton pump inhibitors and risk of adverse cardiovascular events in chronic aspirin users (UK).
  - Development of a simulation model to predict risk of cardiovascular disease for indigenous people (Australia).
  - Development of a global simulation model for patients with type 2 diabetes.

Dr Linda Cobiac – Senior Research Fellow
linda.cobiac@unimelb.edu.au

- **Research interests**
  - Economic evaluation on health related interventions (see projects below); cost and quality of health care (with modelling approach); economics of aging (using longitudinal survey data of HILDA).
- **Current grants**
  - A telehealth mediated nursing intervention (PRISMS) to enable patient monitoring and self-care in haematological cancer patients: a randomised controlled trial (funded by NHMRC).
  - A nation-wide (Australia plus New Zealand) randomised controlled trial of SGIPA (Spinal Cord Injury and Physical Activity): Intensive exercise from acute care to the community” (funded by the Victorian Neurotrauma Initiative).
  - Improving the mental health of carers of stroke patients: A nation-wide (Australia plus New Zealand) randomised controlled trial of SCIPA (Spinal Cord Injury and Physical Activity): Intensive exercise from acute care to the community” (funded by the Victorian Neurotrauma Initiative).

Dr Arthur Hsueh – Senior Lecturer
ahsueh@unimelb.edu.au

- **Research interests**
  - Chronic diseases, cancer, health technology assessments, pharmaceuticals.
- **Some current projects**
  - Economic evaluation for MSAC to inform decisions on the listing of new Medicare items.
  - Assessment on return on investment from using tomosynthesis (DBT) in BreastScreen Assessment.
  - Analysis of pharmaceutical use among children with special needs (LSAC dataset).

Xinyang Hua – PhD candidate
xinyang.hua@unimelb.edu.au

- **Training**
  - Peking University: Master of Science (Health Policy and Health Management), Bachelor of Medicine, Bachelor of Economics.
- **Research interest**
  - Economic evaluation of diabetes, simulation modelling, survival analysis, health equity analysis.
- **Some current projects**
  - Expenditures and prices of antihyperglycemic medications in the United States.
  - Changes in the level and distribution of out-of-pocket medical expenditure: An example using Medicare data from Australia.
  - Cardiovascular risk and life expectancy of type 1 diabetes patients in an Australian cohort.

Michelle Tew – Research Assistant
michelle.tew@unimelb.edu.au

- **Training**
  - MPH (Health Economics/Economic Evaluation, University of Melbourne). MPH (Health Policy, University of Nottingham).
- **Research interests**
  - Chronic diseases, cancer, health technology assessments, pharmaceuticals.
- **Some current projects**
  - Economic evaluation for MSAC to inform decisions on the listing of new Medicare items.
  - Assessment on return on investment from using tomosynthesis (DBT) in BreastScreen Assessment.
  - Analysis of pharmaceutical use among children with special needs (LSAC dataset).
Chris Schilling – Associate Lecturer
chris.schilling@unimelb.edu.au

- Research interests
  - Economic modelling; microsimulation; classification and regression trees (CART); osteoarthritis and total joint replacement; smoking and alcohol; policy translation
- Some current projects
  - SVHM: knee and hip replacement registry; ACAISA RCT; analysis of long term QoL outcomes; modelling osteoarthritis
  - RCH/MCRI: Fontan registry; economic evaluations of anticoagulants; surgery procedures
  - Growing Up in New Zealand (GUINZ) longitudinal database: simulation modelling of early-life interventions; risk behaviour (smoking, drinking) simulation modelling
  - CART analysis of funding decisions; prescribing and guideline adherence

Josh Knight – Research Fellow
andrew.knight@unimelb.edu.au

- Research interests
  - Epidemiology, microsimulation, cardiovascular disease, vitamin D, large datasets
- Some current projects
  - Development of new primary and secondary CVD risk equations for the Australian population
  - Linkage and analysis of large scale community laboratory datasets
  - A large scale (450,000 individual) primary care CVD dataset linked with routinely collected national level data (VIEW/PREDICT)
  - Impacts of pre- and post-partum vitamin D supplementation on the health of children

Deakin Health Economics

- DHE is a self-funding research unit that focuses on economic appraisal, HTA and priority setting
- DHE offers Masters of Health Economics with strong connection to DHE research program
- DHE now has approx. 30 health economists, plus PhDs
- Funding comes from mixture of sources
  - Competitive grants, particularly NHMRC
  - Commissioned work, particularly government
  - Fellowships
  - Deakin through SRC funding + Central support

Melbourne Clinical and Translational Science (MCATS) platform

MCATS provides researchers both from within the University and our affiliated partner’s access to high quality research methodological capabilities.

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For more information:
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mcats-info@unimelb.edu.au

CENTRE FOR HEALTH ECONOMICS
15 INNOVATION WALK
CLAYTON CAMPUS
MONASH UNIVERSITY
**RESEARCH STRENGTHS:**

**Socioeconomic determinants and dynamics of health and subjective wellbeing**

- Measuring quality of life and social preferences
- Preferences, choice, behaviour and performance in the health system

**Economic evaluation of health programs:**
- Micro-evaluation of health technologies (such as drugs, medical devices and health services)
- Evaluation of policy and system changes
- Systematic review & meta-analysis
- Trial-based & modelled evaluation
- Measurement of health outcomes in QALY-terms (using the AQoL and other MAUQs)
- Measurement of health outcomes in dollar-terms (using discrete choice experiments)
- Development & application of priority setting methods

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**LEADING RESEARCHERS:**

- **Professor Anthony Scott**
  - Policy-based evaluation, especially dental, musculoskeletal & kidney disease.
- **Professor Joy Reid**
  - Outcomes measurement in QALY-terms, especially use & development of AQoL.
- **Associate Professor Susan Mortimer**
  - Modelled & policy-based evaluation, especially implementation science & behaviour change interventions.
- **Associate Professor Brian Lankshear**
  - Outcomes measurement in dollar-terms, especially use & development of discrete choice methods.
- **Associate Professor Sarah Potter**
  - Modelled & policy-based evaluation, especially alcohol and obesity.
- **Dr Nicolle Au**
  - Modelled & trial-based evaluation, especially obesity & identifying risk factors.
- **John Liu**
  - Modelled & trial-based evaluation, especially kidney disease.
- **Peter Goodes**
  - Outcomes measurement in dollar-terms, especially use & discrete choice methods.

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**OUR ACCREDITATIONS INCLUDE:**

- EQUIS
- AMBA
- AACSB

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**Melbourne Institute**

**Health Economics Research Program**

Head: Professor Tony Scott (a.scott@unimelb.edu.au)

- Conduct high quality and policy relevant research across a number of areas of applied health economics
  - Health care workforce and health professionals labour markets
  - Health insurance and health care finance
  - Performance, incentives and competition in health care
  - The economics of primary health care services
  - Socio-economic determinants of health
- Research is funded from competitive external grants from ARC, NHMRC, State and Commonwealth governments, and other sources
- Host the NHMRC-funded Centre for Research Excellence in Medical Workforce Dynamics, incorporating the Medicine in Australia: Balancing Employment and Life (MABEL) longitudinal survey of doctors.

http://www.melbourneinstitute.com/health
Core Research Team Members

- Prof Tony Scott (Head)
- Assoc Prof Jongsay Yong
- Dr Jinhu Li
- Dr Susan Mendez

Current Projects

- MABEL – current release wave 8
- Maximum Acceptable Risk of complication in total Knee Arthroplasty (MARKA) Study – NHMRC Project Grant
- Health system sustainability – NHMRC Partnership Centre
- Competition in medical labour markets – ARC Discovery Grant
- Implementing risk adjustment for general surgery performance indicators – commissioned by Medibank